TECHNICAL DELT.

AVAION

The Oldest American Aeronautical Magazine

ANUARY 23, 1928

Issued Weekly

PRICE 20 CENTS



VOLUME XXIV

Special Features

NUMBER 4

Aviation in the West Airway Passenger Stations The New Bellanca Monoplane

AVIATION PUBLISHING CORPORATION 250 WEST 57 STREET, NEW YORK

Publication Office, Highland, N. Y. Entered as Second-Class Matter, Nov. 22, 1920, at the Part Office at Highland N. V. andre but of Month 2, 1779.

TOLEDO PUBLIC LIBRARY





January 23, 202 January 25, 1925

PROGRESS

Now it is thirteen years since Packard pioneered in aircraft motor development — thirteen years of progress and stupendous achievements in avlation. Durling this time Packard has consistently contributed far reaching improvements toward making air transportation safer, forcer

With this fund of specialized knowledge of aircraft motors, plus the experience gamed by twenty-eight years of power-plant engineering leadership, Packard is better equipped than over before to further the interests of aviation. Today Packard is striving to achieve even greater heighty of

Thirteen Years of Pioneering in Alexadi Motor Development - 1915-1928

PACKARD AVIATION ENGINES

and more dependable.

ASK THE MAN WHO OWNS ON

1000

As a military training aircraft engine * * * * * *

TWE Consistent 847-E Engine is ideal. The engine was regularly designed on BeCook Field and a glow new originally designed of the Check Field and a glow and regular designed for the fall field and the field and the field and the field and field a

sides, and the one of hell and reflect learning the employers relate sensitives are onto in a new three-point relates institutes are some in a new scale regular and in the fixest masser without a relative sensitive and relative block in august give a sometimes and relative block in august give a sometimes and relative block in august for any military testing program the first cost of employee was important join. Because they have a relative to the properties of the first cost of employee in supervised from the first cost of employee in supervised program for the size to cost for loss than any other regular of reposit to cost and properties of the first cost of other indutries than any other regular. As we thosehold to characteristic state of the cost of the relative for a properties of the cost of the cost of the cost of the properties of the cost of the cost of the cost of the properties of the cost of the cost of the cost of the properties of the cost of the properties of the cost of the cos

CAMINEZ ENGINES

a customer

X THETHER you are a large or small user V of oxygen, whether your plant is in Maine or California, Linde wants you for

Linde process service can help you as a small user with the practical application of the oxy-acetylene process. It can help you as a large user to work out new processes of manufacture and to determine

just how you can use the oxy-acetylene process more economically. Find out for yourself why Linde cus-





LINDE OXYGEN

Oxweld's Banner Year

1927 was the biggest year in Oxweld's history that the reputation established by Oxweld equip-

ment during the last fifteen years in substantial. And in 1928 more needle than ever before will buy Oxweld injector blowpipes, Oxweld regulators, Oxweld welding rods and fluxes.

These increased sales, demand increased service. Oxweld is to give increased service to greater numhere than ever before-service that will help them use Oxweld equipment efficiently and economically.

OXWELD ACETYLENE COMPANY

Charles Coulon and Cortes Corporative LONG BLAND CITY, N Y CHICAGO



AVIATION

.

Janery 13, 1908

AVIATION



Colors American Acromantical Magazine
as I. Onsone H. Breez Borrez, Jr.
Fronting and Patisher
area D Galleryz
D Winesea Manare
D Winesea Lorenta Fato
Dove J. Links

Index to Contents

STORM FLORENCE STATES AND STATES

OD PRANCISCO GERORIA OGRAFIAN DE SENTIMENTO DE SENTEMBRE DE SENTEMBRE POR L'ANGELE DE SENTEMBRE DE SENTEMBRE

Destina Awannes v. 81,803,806 Corrinary

De Britaines Raus Convergencemen

Per State Convergence

Per

AVIATION PUBLISHING CORPORATION
Frames and Editorial Office
201 West 27th No. New York City
Calle Address AREOUNG
Publishers Office: Righland, New York



A Waco 10 Powered with a Fairchild Caminez 135 hp. Engine

Equipped With

SCINTILLA

Aircraft Magnetos



SCINTILLA MAGNETO COMPANY, SIDNEY, NEW YORK Contractors to the U. S. Army and Navy

The Oldest American Aeronautical Magazine

Note If given recognized the was become edit fied his effects well remarked on the sales before

"Dusting" Pilots CONSTRUCT THE pilet, in a rest to get of the

ten, imports to have his plane houled a sufficient comhe egges. And, so a result, when the sagges is revived to a great cloud of that and dry goes weights into the day when the earth in frost of hangars is powder dry. and my point who has had the manintume to have his close so "bombarded" can well any events the trouble and time it taken to elean up afterwards. to time it takes to essen up asservancys. At most ficide core is being taken that such an event der not occur. However, the grantice is by no means hits agreeat receiving up planes when they are sizes to open hangurs. It takes a relatively small amount of time to head the plane to a safe distance, on if seems many it is but a small effort to point the tail of the piece in some other direction, and the precaption would power

line operators, Sying solved operators, manufacturers work on planes, particularly the passenger planes, are fully careable of dome the work. Perhaps not so much at present se in the may future green, or the prospects of big money that will cause here to reach over. However, an entorachile machanic in not necessarily an airplane mechanic. He often or to the constraint an arrange mechanic. As the re-quires conclude in the trision of the new art. And or errators should be doubly confident that the "gyp" repair man does not get "his fragers in the pie" neor mechanic can unknowingly rain a perfect good surplane confine. Upon the mechanic's skill and worksmankip is dependent a goodly portion of the opedo in the selection of their relate. And as records the made, by instruction schools or otherwise, whereby they one obtain the recovery training to it then for the

obsoble parts of a excessful organization. But there should be a standard of workmanning required and an

The Airplane Mechanic

so inclined abound be encouraged to fellow that line of

MONG THOSE who have contributed in no small mensure to the present success of aviation, and yet service out of a plane. To his judgment is often left tim tending of the details. Details, that are all importest factors in the efficient contration of the emrine Like many of the war time relots, many of the war the pliets, while others have "won their wing" yet such as they may be. But all of them, including the

Dealer Education

POINT THAT sirplane manufacturers should be at corn to represent them so a dealer, is that the sales one con of their product in that particular locality will be in accordance with the business success of the dealer. Directors, if the manufacturer takes time to educate the arranged dealer in the company's relies and stands ready to cooperate in the handling of the vari-At rement all of the marrefacturers are selling olone retail, but as production increases and patienal distri botion becomes a definite reality practically all rotal selling will be in the bands of dealers. They will do local advertising as a follow up of the national adver-Therefore, the manufacturer who considers a denies as a vital reset of his business reporting of that dealers

loughty, and renders him complete cooperation and as

sistance in the conducting of his business will undoubt-



THE noteworthy records of Wright Aeronautical Engines are only outward evidence of inward quality. Behind these engines stands the entire Wright Organization, ever watch-

ful and constantly active

in seeing the product give satisfactory service. This watchfulness by

the Service Department is the user's insurance that Wright Quality & Wright Performance never falls below Wright Standards. CORPORATION

YRIGHT

Airway Passenger Stations

The Need of Suitable Buildings at American Airports as a Means of Inducing the Public to Travel by Air

PERSONAL PROPERTY OF THE PARTY AND ADDRESS OF THE PARTY O senter of Choups. The wanter is had, raining, and you are rangement for bearing our motors American redway to

white. It is saked to stand and walt in a duty hanger or through mehes of pend to the walking plane. What confidence

ecorosoled in this manner? breater of absort every other type of commercial autorpease, do justice to a radiusy station serving a city of a handred



on some to the freedomental precouples for the salarises of mail and freight without delay and by the sharped region the and the construction of the sixport with relation to and a melant bending. The Arrest Station Terminal and the indiang location, place and arrangement, see on the real or station with the appearant, plans and relations go at thing in the work of the architect rather than the The relations of rate for an appear to of the most defined: ore, as it I required for the banding of large planes, in the



old. Most American robus are both around their redway. micro and are planted for relwar transperiation facilities ini, Orcen, Chicago, Boston and one or two other reter

Differ of Phine Best Poores in France. by we refer which in the most effected line in operation by tale- its. In addition to the topography of the field the

weekless of thinking the passenger surport. The Department on effects were made to turn these fields into communical

At Tempelial they now have a large passenger mixing in competion with the present buildings, where prints and At Crepton, England, a year ago they began to rebuild in surport station design and consist of the man passenger ristion with its quarters for officers, administration and an centity offices, the centers and realist tower, bureauc, freight and departments and emittee offices. In connection with



were perceptr widler room, they have an assaling



Fig. 1. Droccop of surport aboving arrangement of buildings were building. The plane our now land in our direction of

made without disturbent the grammal broad-

Air Station Similar to Uncon Roll Terrored

ment coater to attract the public and not only become

January 23, 190% to a r into station, writing room, entered from the year type of plane in one. In order to see down this bush shan will withstand the word recovers. It is necessary to one the

are not of the many weather room, will be a tarket office.



lumition largers, telephone booths, nevertands, etc. In case

A "Y" Shaped Arrest

The road count he heads with some tree of skylight accuraare of artificial lasts. The arrespondent of the sheet to the

New Bellanca Factory Planned For Site Near Wilmington, Del

DEPENDED ASSESSMENT between the Dellarge AssessMent organization plans to suitablish a manufastering ulast and Although an option was obtained on the hard some time

In addition to manufacturing planes the Bellauce Corpora tone that brencht the Relleves Corneration to Wilnington.

Eagleroek Distributor Founds

Flying Club in Isleton, Cal.

The New Bellanca Monoplane Series to shallow. The state progress of the state of th

Model I is the First of a Series of Closed Cabin Monoplanes and is Powered With a "Whirlwind" Engine

By RECHARD M. MOCK

endarance Early. This place, which is the Selfraca model J.

Original Type of Cassilover Lunding Grav

covering is possed at this point with an estima strip over the

2000 In. With this load it is stated to here a both sored if

nest : in door to the cockpt. Entrance or reads themsel the control of the state of the



produce in case of an ounergousy, dump valves such as these to ten under during head both. The tank may be filled by removed through the loss of the ware. As the steer of the



Showing the full continuer landing over and resilies on the

dropped quickly without morroug a great expense. Behead

Wines are of Wood

The wang is of wood with two routed I became for many, he ers noticed that there are additional solid agrees members bechannel notion reducing the weight. The rods by Stewart In the winer on each side of the freeless is a 10 ml. feel

the tank there is a physical panel parity supporting the tech

Jennery 21 199

The worse, which have a section different should from that other test curious are braced by stranging toward, or on-

Stead Streetman Smiller to Wine Streetmen

Two strets from the bottom of the feerings halo support



100 to 11 best would never 2,949 fa-

Amery 21, 1928

Season speed EN or to be Dans of common speed (appear) 5,000 as is heaven were to meet the new Bellages measurement

Marshall Flying School Reports A Steady Enrollment of Students CTIDENES ARE seeding in the Marchall Private School

by dry according to a monthly papert would by Devel-Damy the 30 day period of from New 2 to Dec 3, 2002

Salt Lake-Great Falls Air Mail Contract Given to Alfred Frank

4 tt. 7 tt. Commercial Aircraft Sales Co. Will Distribute Lincoln-Page NEGOTIATIONS HAVE not been consisted between the



The finish from Lands was recorded to a granter stage

Seenic Airways, Inc., Approved By Local Chamber of Commerce

The plan of the Source Arreany is to begin service than

January '3, 203 the arteston reductry in its in the better position than was

> and by the processes on the automobile undestro?" and others are past griting rate a position to produce agrsizes at a larger scale. The Lockhood Asseraft Commany of different has recently developed a fine cobin manufacture

> confine features of this plane in the fact that it devolves

on high speed of 135 m p.h. whise powered with the Wright

water. This person holds the "Alaba", from he Martin Ten representations on the Paritie sense have started pro-

to bettern of alaminer and the strength of shall. The Tailer Applican Company of San Pranting in last one-Thrived some, while the Problem San Darry Aireland Company has completed its first all-metal cable mescrybers

Conditions Favocable to Development

Safety First, Twice.

Air action photo of two Novy parachele jumpers on their year to Neiber Earth offer history "alreaded off" a close at

"When it is resigned, reported O S McPherson to the

the transportation of air said has developed rate a become of great suportance. It is interesting to note that the Westen Ale Exposus at the first all ward has in the world to The Parello Court has contributed in a large measure to pay all specialing expenses, could a sufficient reserve for to descriptions of manuscript anishing to the United States deposition and still have a uniforml amount to declare a Avidend after the first year's operation. The progress now made by the other two lines indicates that they will be in the In vect must have been nurticiparty function to the deport Company in speculing the line from San Francisco to The Medder Sinfer boson countries on Sent 1, 1907

then Calcard Linchards flow and of the Ford triangulars from San Deep to Les Augeles and return with a party of San Dange buseom men. This my live has been in daily operatwo stars that time. As the beginner develops it is played to critical than line rentward to controls Phoenix and Dallas. Supplementary to these object services are surred contention.

in the west offering planes for air text service, such second, adverticing, photography, evop during and furnishme firing contractions. The following table given some idea of this

No. Operation Ca's Planes Miles flow Possesses



Aviation in the West

Some Facts and Figures on Airplane Manufacturing and Operating Activities on the Pacific Coast

By ANDREW IL DOONE

largely to the manufacture of military planes. In this field

Trans Jurier 1925, when the first "en-factory or mid-nor" on-

not. The me natural question for ever taken the next "It has been said that the aventure industry in in the le-

A Rind's Eve View



the name of the particular parameter was 10 countries in the impact heal of any are part or part or part of the United Three four concerns are the Western Air Europe, appear ing from Lee Angeles to Salt Lake City; the Reeing Air

Support, sovering the territory between San Francisco and nim and Nam Drawn. All there have not fine records for Intered on the Paritie count. Densites used planes take the or for the Western Art Express P.A.T. ness Ryan where group respect result were interesting data. The referencies mobile operations from Sept. 1, 1825, in the same data in 187, for FAS and WAS, but only the mostle of July

Operation reputts follow: Wim Serv. 1,020,645

and August for Booling, due to the fact that the rents was Miles athebated 1,001,005 Time defended annual control of the Mel carried, the course of course of the carried of

The "Special of California" part of the ground on the fourth extempt to set an endarance record Captain Kingsford-Smith Try a Fifth Time

Additional Fuel Tank to be Installed in Endurance Plane

B+ D. R. LANE F THE world record for continuous fight does not make George R. Fund, farmerly of the United States Navo board to recent this record from the German, Edward and Prescoon or Oakland Hanselpal Airport and remon to the broken gas less encord them to decord Socilar, Der 18 A.M. Dor. 20, when their fael was refused to four soliton

planer. As soon as they handed Philip C Saltenne, Sight

100 cml tank in the finelege of the bur marken, to bour t gal of fuel and weighed, all tall, 15,200 th. Her wind to tog was 20 to in per og ft, and, in view of her perfects The plane tack off in 25 sec. after a man of 2,000 O.

water to Secrements, to gain advantage of the three sale yearpages to Otolikanon, or gave meanings to use many many and any or Mather Field in taking off for the long hor. These priori from the fluor.

The plane was in practically excitances communication with took holding 100 gal

Amarry 23, 2926

tre recented in passible signer moles the wings. Each engine hit its over ad back, assented just aft of the motor. These

s return chosen on assessed of its facilitity. The outboard

posted vibration that morbt grow from the condition The seaso feel tank is of terreplate and holds 500 and. In to recented to what would collourly he the relies space of the elic. Aft of their to an alumnam, tank holding 225 rad and under the feet of the surrenter and rades man is a feirfa. also of alternam, believe 110 pet. In such wing is a brane



ready for a take of built, and 44ale in turn. These are Goodpan Streetman and were tested before delivery to motion \$1,000 th each for an arrelance. They have \$60 spokes each, arranged us three rows. That is, they have beende the conventional inner and unfer weeken of a wire wheel, an additional control wor The whoch have been tested to 63,000 th each. Special Evall



re a stick, or e gretou of blinker liable actuated by telescools This set is workfed with a ellery were automore 200 ft. ineys. When the tilses was boards it was without corresp. A the Boung plant Plafts C. Soltenas, flight engineer, re-de-



lating of the additional lankage. The tank system was oproposed with a large Jones rates, rendering it would be somety the full load with event expelien-The restrement system in Pioneer throughout, except for to hide neglect. The matrement board extress the following deater, lateral technometer, fore and all mehasureter; rate

Plane Equipped With Three Wireless Sets are for receiving and one for sanding. These are sending war's death plungs into the Pecific was redood back as his

100 mi. The onemaner not has a designed reduce of 500 ms. for sirway petrous only.

For the other sets antenan are carried on two resis, one on word-driven generators, moneted one on either side of the

San Francisco Reports Growth Of its New Municipal Airport stouths oversion man McIn Field was opened last May 12 Small chains hands after their frank securesoful extrage in heavily hands after their frank securesoful extrage

Some adm of the development of basiness at Mills Fold may be owined from the followor tabulation:

Supervisor Mile F. Keut, chairman of the catr's arrest

Biltmore Travel Bureau Offers Transcontinental Flying Service TRANSCONTINENTAL resources from to being recorded by the Europe Ritmon Toyol Barres, array of the

Skofeld of the Banker's Trust Co., New York Otc. at a con-States served by a recommend air poets, the Educary claim of lotein provides special care to meet guests on income 8,000 mt. The long-wave set has eas of between 500 and

Navy Ships Latest Model Vought developed 690.6 and 600.0 be removed, at 2000 research as compared to the model has of the at 2000 car-Planes to Marines in Nicaragua

QUITTED UNDER segret New Department uplers, the active November predoctors of Vought "Correins" in so its sur to Manarus, Mirararus, for californic the II. 9. Manara eratics tinte. These planes, which are to be used for masel and expeditionary purposes, are compried with entoun-South as entire total total of those transmissers has also New York to Mexico in Two Davis Va. to be plessed abound second creatons and buttle ships of

August 23, 2023.

Jensery 23, 2502

to Atlante fleet. Special based-ine catacaste with reveof lot 41 ft. will be used for those places deman the expend we have Jan T. The Venght factory is Long Idaol Olfs The new "Corwar" replaces the older DD model, which at correction ellipsoles. This plane is a destinate of these which colabilished those workle speed records and one alt-

Test Two General V.1550 Curting Engines After 75 Hr. of Flying TWO 600 has general V-2550 Centum empions, the first of tire) for eathering of hermooner before francoably, and

Officeral officers of the U. P. Norm

tital condition, which was particularly statisting in year of the Effective that is often experienced with guared engineer.

the rentarement of three slightly-wors poten rings. The criteder walls, main and ownseeling red bearings and once-Is Plan of New Air Mail Route

WITH A view of establishing as air mid route to Marine Criv. Postsmader General New place to open regellations with Marriese routel officials, it has been expensed Lindbergh's conflority flight has descentrated the agestivalifty of a resis connecting the United States with points Asserting to plaza new hear formulated, it is economic to establish as air small line from New Orleans to Brownwhich Colored Limitson's took in his late dight from Washington to the Mesiste expelsi, and when this rents is in spe-

will be bet another step reute remning from Dallas and Fort Worth to Chouge, and loave Atlanta et 6 60 AM, New Orleans et 12 M., and arin "Condor" bomber, best for the Air Corps, and were teur to Coresa Christo Brownerstly, Tansaira and Mexico

from the plane, they were immediately will upon the Odr. I has notified the Fost Office Department. Thus true Ninety Feet From Tip to Tip



the result is stated to be the largest person type secrepture are compressed, so powered by these Statement-Heisbit 185 by Spine: The same of the slowe is 30 ft and the record in such as of ft is we, and the bright is 25 ft. The dry secrept 400 to and the total paralless capacity as 1,000 pal-which is must as being sufficient for a martened flight of 33 ha

A template technical description of the South Atlastess will expect in an early inner of America.

Air Service Club. Inc. of Denver

to Various "Compley" will be used for the tests. At each on

Working to Promote Aeronautics THE OBSANIZATION of the Air Sermes Clab. Inc. of of these will have account with a few pressure seen over out-

A commodarm this house was erroted at Lawry Fold, home A majority of the members of the clab are rated pilots of An important function of the clab in a world's lanchure. An important function of the oran of a singly infromen. Various films and those reterested in automation see arged The affects of the cish our controlled by a board of seven

To Conduct Experiments in Making Weather Observations From Planes for the summer of manufact small team. While the planes are the tures pursue and chart these from the coner assessor-stations will be occupated as an effort to learn the treth of

Because the per-eral rays of pieces cannot easily reach 20,000



die Guard States and high pressure over, or the Atlanta a low and a both unrounce condition. These at charge, it is

Douglas Co., Awarded a \$1.553 505 Contract for 28 PN-10 Airplanes A WARD OF a contract to the Douelan Co., Santa Merron,

In nice receibs and subsequent delinerses will follow at the rate of two such month. The planes will be segregard with

To Establish Radio Communication Stations on Salt Lake-Pasco Line EFFORTS ARE been made the water to establish role: et Enricy and Stovell, Idaho, and on the tree-constancted rests at Him Course, Calif., according to the Asymmetric

have not nativator who will not an excelabor and weather of



Jensery 23, 100 Jensery 23, 1928

New Keystone XLB-6 Army Bomber Universal Air Service Changes Gives Good Performance at Tests DECENT PUBLIC tests of the new Keystone XLS 6 Armo-

Developed by C. Tubet Perter, duef engineer of the Kep-

ether clause of a larger two. Furthermore, according to Mr.

witnessed by Edgar N. Gott, Keystone peculinet, Elliot Debrok, vancerended, C. L. Releson, works manners, and Charles L. Lawrence, president of the Wright Accountable

Department of Commerce Makes Customs Ruling for Airplanes

NO ENTRY at the outcodesse used be made in explanafellow a regulation by the Department of Commerce under THE AMERICAN Engineering Standards Committee This action is similar to the law regarding concluses. Secter and m mir" on a wessel. Serious 641 of the Taroff Ari earrying passengers, ouggests, or more annual control or passenged to make outer at the matemateria although they ment proset to the soflector of customs any hagings and mer-

Location and Erects New Hangar THE UNIVERSAL AIR Service formerly of Block of to

makes due sant of town having a wind mels, 160 th. cords,

Minnesota Aircraft Co. Appointed Alexander Eaglerock Distribut THE STATE of Minomata, which has hereledger been to on by the Alexander Acronals Co. as the territory to writed by the Munerola Amerali Co. of Monearolis.

The Minnesele Accordi Co. plans to divide the state of three to five sub-dealerships and it will retain the Tr Office and the ampediate vidually on its sem selies brook The scope of activities will module the usual years

American Engineering Standards Committee Gets Symbols Repo

commercial avertice, oversitation

standards is now being distributed in a testative list. may be obtained and suggestions and changes should M period to Presion S. Millor, supplery of the Sections witten on Reportific and Engineering Symbols and Aller



World's Altitude Record Lieutenant C. C. Champion, Jr., U.S.N. in a navy



shipboard fighter has been officially credited with the World's altitude record for land planes with a height of 18 474 feet. Lieutenant Champion and the "Anache" are already the holders of the World's altitude record for seanlanes.

The "Wasp" has again proved its supremacy at alprode which is so essential in the fighting single and two-place ships. This performance is further proof that American pilots and American flying equipment are second to none.

TOTAL COMMECTICAL

ENGINES DEPENDABLE

beneat distance by

deep, dark SECRET

"Operators of flying schools told me at the recent Washington Conference that they per-fured the EAGLEROCK for student in-

"Naturally, I wanted to know the reasons for this professors Mess they see "First and most important VISIBILITY He says: preconflied: second - perfect lateral control

> - but factor of safety and five - dependability, day after day. "Over 100 achools are now using EAGLE-RCCKS for student training.

"The popularity of the EAGLEROCK is not accidental - it has been earned. go at it Hon-Respect England State Co., 201 W. 410 No.

of a fine of the following filters for the file for the damping of a file for the file following filters for the file for the file following file. Fig. 2. The property of the control of the control

Fig. 4. Apr. 1077 Berth Johnson, 1977 Glass, Steiner, 1977 Glass, 1977 Glass,

Authorities State Authorities 114 definite State Authorities Con-partic Districts Consults attracting Life 18th Fact St. Under 2 West & N. 16th — Under England Abstract Co. 18th St. Under 2 West & N. 16th — Under Consults attracting to the United Alternation Michigan State Openioses, Fact Acts, Edwards Fig.—18th State Authorities Co., 24th State Acts, Edwards Fig.—18th State, St. 25th State Consults Con-ALEXANDER INDUSTRIES BLDG. BM 461, DENVER, COLORADO



Used Daily by Northwest Airways THE "NATIONAL Engle", the plane that C. W. "Small. National Air Decky is in me by the Northwest Airman, on

January 23, 1930 (marry 15, 1994

is expected to cover a number of miles yet before its pedial Holman, who to the operating manager of this are bascould not general manager or the correspond havening an pos-

was held with the housest may be discount the monthship of H. F. Tapliu Obtains the American Rights for Avro "Avian" Planes

AMERICAN MANUFACTURING rights for the Aven "Avise" here been obtained, it is opported, by ill. J. Tapthe place, we completed place recinding engine to sell at

\$5500 to \$5000, is embedied in Taplie's plans. A deal has Lighted Airway From Great Lakes

To the Gulf Nearing a Reality WITH THE completion of labrang on the Dallas-Galvanou. ar reads the United States will be lighted from the Great Lakes to the Galf awarding to the Agreement Branch

ted lighting of the Kannar City-Chongo arreay recordly. The encylcion of the Kanasa Cety-Chengo lighting streshee an discussful survey from Daffer. Torse, to Glarar-Dixon, on Lake Madaran, according to the Department. Department's nearest for the foral year 1005.20. Delted course of marks from the Gulf of Manner to Yake Michigan

THE airfoil fuselage of the Burnelli monoplanes lifts in excess of the equivalent wing area of the fuselage width. This utility of fuselage area allows beavier wing loading with increased speed range as the fuselage Ky is

About

high at landing angles. Some Advantages of the BURNELLI TYPE

Expensive pedaction of head resistance Reduced parasag monety on one engine Fauctory life reduces landing speed Streetsen' efficiency and amplicity



AIRCRART CORPORATION 247 PARK AVENUE. NEW YORK CITY

The AIRSEDAN

Safety

No. 12. Approved for 1000 lbs.

INSURANCE Fell overage will be grapped for all

SPECIFICATIONS

Much Speed (sea level) 120 M.P.H. EOUIPMENT

Tensocrature Garne, Air Corne Threeer. Metal Mul or Bureage Compact:

The Ideal Commercial Plans

Price \$12.500 Element

BUHL AIRCRAFT CO. Marysville, Michigan

Navy Places \$725,000 Contract For 41 Vought "Corsair" Plane AWARD OF a contrast for 41 "Corner" sharest-manror planes. (Navy Model OSU-1) to the Chance Young debrery changes, in approximately \$725,000. Peopl & Wa-This is the fourth large contract awarded by the New Yo.

or this highly messectal model, designed by Chagae Vougle is tablished four world's records, and is the estatement planare kuchly ratiofactory for the purpose intended." A number of these planes have been delivered to the Name for the rentenests as southern waters. The green going h the new accounts carriers U.S.S. Seretogs and U.S.S. Long

Lindbergh Backers Will Finance New Mahoney Factory at St. Louis PAROLD M. BIXBY and Harry Louds, two of the see Maleoner Arenaft Corp. of St. Lewes, Ma., according to F. Ribbins Assessed them for Dugo and St. Leas. The secnear that had to be "Spirit of St. Lotar", after manufacturter sirrienes to Sen France state 1900 will become to me exhaustive study of the various cities of the United State the United States and office unlamped opportunities for mi "The San Dage factory will continue to gradue tw

Breeghams per week and at the more time the factory of Dr. Lowie will begin to produce an sound number. As not as the St. Lesse plant in running receibly we will travel Plans for the senstruction of the new factory on Landon

Blood & Forster Are Appointed

To Kingston Eaglerock Agency DLOOD & FORSTEE have been provided desire for Alexander Engleroels in Kingston, N. Y. They will spe-rate under Atlantic Alexand, distribution for that harder

Effort to Break Endurance Record On THE ofference of Stateshay, Jan. 36, 1928, where a merpanel fight of \$4 hr 52 min. 24 me., Clarence Chunker-

Bellanca Monoplane up 51 hr. ir

into recording powered with a Wrocki Jil morne. This where the contract of the cont which was broken on Aug 5, 2927, when Covarion Eduard ttd Jahren Station book their Justices J.33 L. recombine in he are for 52 by 52 man 11 sec. becalong Chambedle and As the place, which is a Beliance model I award by A.

senselul more spress/fil, on the following day: The first

may minor accidents which later rained the chances of cethe incorrements and it is understood at this time that we the effect will be made shortly. Two attempts were made,



most freedom in handling thips Large Stiding Doors opening the full width of the building, simplify the storing of planes. We furnish Steel Doors for any requirements. TRUSCON STEEL COMPANY TRUSCON

length and width. Being hid

out in clear spans, their unch

and for every need of the Air-

Please quote price on Stonger ex CONT. Total State Cont. Please and Descriptive Folian.

This where, which has excited on its sides the came "The

yearen why it should not be able to stay in the air bury in-

Milwaukee School Board Opens New Class in Model Buildisbehad from the wing task debbled into the freelage specing. THE SCHOOL board extension department, of Milyani-

A S. Martino", is first of a service of elemed colors assemptional materials has been pount on at other modul content with variabled by the Beltinan Corp of America at its Arthagen, stay for cereal weeks. The new class is under the device EDO Pontoons and the Waco

THE old standay the Wast 9 on Ino floats for a lone bernesson, reactiful manhor ruo passengers Never dal E New the Wass 10 contract with the same Epo from takes

by oliver Still more agreement.

new mark of undery for scaplenes. The



spendy able to us on what warrious



EGO AIRCRAPT GORPORATION

COLLEGE POSSY, L 1, N Y

hidder and they are on the

francisco less there were for

cockpa. Very easy to get ster.

values board of the wer

herepover enous be put in an arphase? Didn't the de-

More than 20 supulheors of

January 23, 1926

To feet A Wass, less, glec'ally calls ony attention to an

Then as they stepped back, billing their hands, the gas

It seems that the evep of downtrobles transition in group,

The wivier of the other letter gets steemed up to his sub-

January 13, 100

CURTISS - REED PROPELLERS National Air Transport, operating the Air Mod ed Exercis lates from New York to Change and

Two Types now available

The Cortiss Aeronlane & Motor Co., Inc.

Austin Designs and Builds Aviation Buildings AUSTIN derigns, exceptracts and resize And a grame territoral cost, complete a dan Anata will also deliver used and other ea-

amend munching for exection by a local b Ad to attend on an ad blue. THE AUSTIN COMPANY

Architects, Engineers and Dallders for he had discourse Product to Long Charge Published

Pertinnel Ore

Fail : officers of the Werester Arrest, Inc., in course,

Partial's 500 frieg wheel has just spend with 20 pp. duted over for the American Engle beginne. This select is

TRAVEL AIR MFG CO. In: TORY AND GENTLAN PETET - WICHITA PANCAGE



Easy adjustment The Bendix Laddon Wheel and Ben-

dix 2-Shoe Servo Brake form this entirely from outside.

Fully protected by parents and applications in U.S. and abread.

Greened Officer and Pierry Seath Brad. Ind.

AIRPORTS AND AIRWAYS

Worcester, Mass.

The first freight our delivery of supplemen in expected in which has leased Wittell Field as a firing subod and payauchied at the agreet. They are those Waco M's, see of

water the assessm of the Wormster Apport, Inc. The ayor of Lewell, Mass, only two sole students remain at Whit-

Eurland, Other students received materialism are Harlan W. Colles, Arthur J. Flyon, Jeosph H. Beynelds, Plugo Up-

also been unstalled. The hancur is covered by M. Whites White, by Phones A Malin of Unkridge, Mass, formerly of Albasy. N. T. He has surrehand 100 acres of land on Mandon, Mass., 10 mm southeast of Worcester, which is sen-

here on the land which may be officed. The land, well

on the first student flow to be volved at Whitfall First. Here for a tailing led became of trees and abandoned Agent build-

our and expects to make application for a Managhanetty by Lived, N. C. "Extr" Surrows, vice-proposed of the New Synta F. Anderson England Arrendt Comp, cannot press associations examine-



Whattall Food, at Worsester, Mass, is send for proteins at Middle Freid, as or oversary, many, in and you creating on done there and for the demonstration of Ware True and four

and it was described that he had only one marries about Field under the asspects of the New England Alternati Corp. The impetes for the school course from the 12 student from Firer to not expect to make many flights during the water

Caterpillar Clab Envety Although Sights have been made recolorly from World

interest in eviation in this section. The field in large rough

To Ranks offers removed evidence of the great interest that the neather was beliefly said. Bankon appraises as nor

ther been redicated to see the trey then. Paverable weather

Arresta American, must every other Manday night or V. D. Corton Support Bullet, One., auto dealer, has non-

Tv: four-passenger enclosed planes are to be purchased manic. The new planes have an yet not been obosen. Various his revery from a waveton on Los Angeles, Lord, Oakles

DENDLY SHAKE COMPANY

January 23, 1812 January . S., 1928

The altitude resolved was \$4,000 ft. The passengers was

SILVER DIXON CO. 711 Bolivar Rd., Cleveland, O.

AUSTRALIA

We are prepared to respected for the followings-The Australian manufacturing makes (sepake basis)

A Lesson . . .

... NOT A TOY

ENDORSED by accomute

achools. Test the bow's skill

We Are Contractors To >-

Civil Aviation Department (Manufacture of amores, proseducing already and

Works & Railways Department

a Londbook and Mrs Evangelies L. Lindbook. He sproud der and make

On the 25 Special Cape, or removed to been Cohene how to fir, peaced thousand "All of the Tre Red Stock used

true allows rather than the French. Cake to paying all ar and made from Mexico Orty to New Orleans source than

o the M varie supplied 49 km, after having New Orlows.

Tie Nov Orleans Association of Generous for many months

Motor Mocon

Planers and Moscots for Planer.

a hil meliora

plied by Macwhyte Cormery We have used Macubyte products for the past several years and are year much element with esived"-from letter mend by Gardner W. Cary, Boeing Airplane Company, Scenic. Write for more dessite Macwhyte Company, 2905 Fourteenth Ave., Kennely, Wis-MACWHYTE Streamline and Round

Boeing

Mail Planes

on these planes and all of the Screenling Interplane and Non-

TIE RODS "Sadrit of St. Louis" Art Bronze Paper Cutter

"Alberta"

Oklohoma City. Okla-

lay plane. Ohishous. It has now been appeared that the cothe subremer record, flying between Oklohoms Ody and

and will be remembered in the passe owners a see not a proper to be considered by Othahouan City with Al Horder and Beneati Oriffic at the group conce respectated in the group makes it possible tolders. It was forced to have been up to the passes of the even treater. In In "Pete" Leven, formerly of Otletons Co. , logs, princess, or world aspect. etter polet has not yet been scheded. Oklahama Cite ut

espitul and now abandened. A ted spin, a loop, a ving the

early to erroreded people to Oklahoma City at Circles-The Sandwood Nash Motor Co reference on Marti Seeto new awaitant beliefs. As noon as they arrive his owner

is to be organised and manufacture began. \$7.50 post paid Decreed to Johnsto and Clabs

will experience to difficulty when going before the Depart-Cantain Lewis A. Yancey 425 West End Avenue, New York City

Aerial Navigation

and Meteorology

for

Students

Pilots

Instructors

Excentives

This little book was written

second and thereurably course

pliot. With a little study camdidates for any grade of license

Winter

Flying Moccasins

made or every person?

three buckles. Shows went

ined all com. \$15

WAR SURPLUS

Per pair \$5

NICHOLAS - REAZLEY

AIRPLANE CO., Inc.

Cincippeti Ohio Constants has an evision group resolution of de seexperienced in various have of necessation accords show appearing before recorday service clubs and other metal. Streambood the city Record availabled indepent on availhas revolted in this manufactor. The un som appear left-

the per regulated, or sawer my question submitted The property of the group as Bairt Graphen short to over of the Halpin Development Co., Thomas E. Halpin. angles : the Halper Durstryeast Co ; Y. Hughy Ewhys. maker - the Reder Robbs Co., John Paul Robbs, superal

sheet over of the Embry-Riddle Cu.; and Charles E. dead deals with decays and equipmettee of elevents. an will take and private ownership of simplemen, Robble

can see you and either docum the subjects in which they

Sausty /3, 1925 Jennary 13 Inc.

-They restort the plane and cut many

Galactic's recent sequentian of Lecter Aspert as a unconfere for the Continental Air Lines to see Cinetract, or

rate and other enterprises of the kind reduces a bright faton for the Queen City in aviation. force on the operation roots and unsolveds for modern au-E. L. Patnar, von-resident and syntral measure of the

place and engine in perfect confident in this way Polesco plans on extended speaking top in connection with in harmore, burger New York and visiting Richmond, Va., Spatianisary, S. C., Auguste, Co., Jackscowdle, Ph., Al-

Moreovath, III.

It proposed for the spring reals for new simplesce in 198, 6: Mallyrett Airmany Cores has minord an order Rees: cross the delays of hot runner, the Midwell has

Our . Woose, Nines and Tens, here been delivered to

Every Pilot and Executive

SHITTED HAVE the facts on Armi Shock -They make landing comfortable -

aberra -They make forced landings less becar-

Write today for illustrated booklet

CLEVELAND PNEUMATIC AEROL CO. 5717 E. 78th St., Cleveland, Ohio.

AEROL STRUT

Another "TITANINE" Product FLEXIBLE WING LACOUER For Use Over Own

CLEAR NITRATE ... OTHER ACETATE DOPES

TITANINE Inc. UNION, UNION COUNTY, N. J. Concentral to U. S. Government

Seamless Steel Tubing POLIND STREAMINE ETC.

STRAIGHT CARRON

Consider to Account Dallage Management for \$1 Feet SUMMERIUS TUBING COMPANY

What Do You Know About Airnlanes? FEW years ago men had to loan short sixcaft from personal, coolly exceptions.

They had so one to quick them—no one to point not matches when they may made and therefore there long years of experience and knowledge, which was man and year of operation and forwards, which was sailing to acquire a first say and forcing from the force of the control of highly endowed by prominent scenario authorities. mater whether you have worked work corplisate all your life or are yest beginning to the industry you need at your life or are yest beginning to the industry you need at your mountain to artist for a complete and detailed rathers of

the region and my new and securing from bank American School of Aviation Deet 5261 3601 Michigan Ave., CHICAGO, ILL. the ideal HANGAR for airplanes

hanged, temperary or permanent, in green per reperience, and in the most eventshind in much Stories information on pageons. Our narries department will occupant on plans with auginous, communicat and all others ARCH BOOF CONSTRUCTION CO. INC. 104 Year Shall P

TO MAKE AMERICA FIRST IN THE AIR

IS THE PURPOSE OF THE National Aeronautic Association In this effort it merits and invites YOUR cooperation and support Resules Membership \$5.00 per Year

NATIONAL BEADQUARTERS The East Suilding, 910 17th St., N.W. Low, E O Beardoly, Chongo, Ill.; J. G. Lockwool, Springer, E. C. Below, Springer, Coles City, Win., A. C. Stor, Mount Vergon, II., Walter Klener, Debuges, Ir. v. L. at the conference of eventure reterests. I, F Dane, research

Jesusry 3, 10

August 23, 1958

Salt Lake City, Utah

Checks for \$50 were given by Wasser at common persons on the Salt Lake-Passe arrays, as Garciero persons are the common of the beauty The most for the eight days of the Christman resh was I The Western Air Express seeraged 4503 th of mal in during the Circulence reals. This was east-bound sort for to Nait Labo and the East, opening that 28,000 lb. of red wo handed through the field Lake Alepert west office.

distance of 175 per from Sait Lake to Open Pulls. Not via Pacatello, Multo, Batte and Helena, Mani, was male b while Walter T. Yarmer's was \$2.55 and that of the Sons Mr. Frank is haded by a group of Sali Lake beauters by

area, our a wild core at the ness see propiness so the grandels and transportation will be formable flore will be

named to the court boundary being approximately had it.

Note Assert Corp., at Glendale, Oald, recently Detre-

represented station for simbon at Ferlin, Dr. Produck Second, may of the acredynamic drymen of the florests.

Saste Monion, Colif.

BENNETT'S \$600 Special 50 Hour Solo Course Qualitying for

> Completed in 90 Days Steet Any Time, No Closes All Planes Certified Types Free Home Study Course and Free Dual Instruction To Possess of Factorocks during

January and February USED EAGLEROCKS, \$1500 HALL SCOTT L6 with extra collector \$200 West OXS Motors and Parts DENNETT FACIFFORM SALES CO. 223 West 12th Street

A fiving-guit without an equal at twice its price TO HE DIFFOO MAKE SHOW ser is mornaled to center and compart Sund for descriptive folder JIHANG BROS. FYERARD (O. Kalemanes Uniform Co.

PEPPV.AUSTEN

DOPES Class PERRY-AUSTEN CLEAR ACETATE DOPE

The Lastine Undercost The Best Finish { Undervois-Our Clear Access Uppercents-Our Figuresial Duper

Perry-Austen Mfg. Co., Staten Island, N. Y.

U. S. Arwy, was statemed at Fort Learnesworth, Europe in At Your Service Bay District aviation earlies are netermeters with

AERO SUPPLY MEG. CO. INC.

Manufacturers and Devolutions of Airplane Accessories and Supplies

Call on us for anything We will help you COLLEGE POINT.

Hisnano-Suiza Banks Reclaimed

Due to the precision sected used, it is innomible Seats installed \$7.50 each GRAYS GARAGE SAS North 2nd West Sall Lake City Date

WILL ANOWN amountable distributes with a bounduplet of a place. The reseases in interested in current and winner of the Dole Hawaitan flight prise. Goet: 10 to

Madison, Wit.

Sent plane wreshed, she purchased mother in order to on time her fring. Former solds of the world war, who was students at the University of Wisconsen, acted as miles. There relations in the progress of available or Madoon an

Sandan April Alternate Machine Com Manne

January 21, 202 | Amory 13, 1928

-INITED STATES AIR FORCES arrest of Experiment of the Infantry School, Part Buy touch by finally tested or annexed, the new mount has Advance School Graduates the contract of the party of th It is interesting to cate that seven June 20, 1800, the Air.

Since the date mentioned, and t foreign constrict have seen per of the curriage when used for record targets. The Canadian Officers to Visit San Antonia non-complet the wheeled wound and the summer than sent The War Department has received a request from the Carafter Minister for agreement for two officers of the Resul-The studed by eleplane so the moreh the corriege for a period of approximately one month for the purpose of

to year magniful on the triend, to the ten of the marking Canadian affects.

HALL - ALLIMINUM AIRCRAFT CORPORATION Successors to Airelana Rusiness of CHARLES WARD HALL INC.

STRONG, LIGHT-WEIGHT, ALL-METAL AIRPLANES AND SEAPLANES Standardized Drawn Sections and Stamped Parts 2050 FLMWOOD AVE., BUFFALO, N. Y.

Contractors to U.S. North MODERN MILITARY AND COMMERCIAL PLANES

Are Equipped With Our SHOCK ARSONRER CORD Proteon in the Manufacture of Electic Good for

Prompts Produces of Good for Country and U. S. Germannin dozen the World Way.

Felly Equipped for the Largest Esquessessis or Any Experimental Texts. WOOD BLASTIC WER CO. DESCRIPTION, WASS, U.S.A. Say Tank Orlean-All E. 17th St.; Counts - M. St. Pater St., Hostoni

NITRATE DOPE

conductor Army Arr Coron traversy methods. This recount

gan ext. This resided recombined because the male souls

the read and made difficult all-round fire, promisable when the directors of the target constitued the gunner to place

brosself at the mercy of the main, between the main and the

SHIPMENT

CINCACO NA.

PRODUCTION

Contractors to U. S. Army and Name VAN SCHAACK BROS CHEMICAL MORKS AVA AVORDALE AVE.

LLNY. One of the students receiving frying training-a French Ast. How heels decarded due to had solve more



WHERE TO PROCURE FOR PMENT AND SERVICES

page 40, Jennery 2nd issue IONEER INSTRUMENT COMPONY

THE EMBRY-RIDDLE COMPANY, Inc. Datributen WACD Complete Lanc of Regulers on Hand ONS Marce Parts Complete Lane ALL BRANCHES COMMERCIAL AVIATION

FILEDIA BUINALS LABORS SAFE AND SELECTION OF Title managed and came deally femalest stepment 1

Plenis Aircraft Products Co., Williamerille, N. T. LUXOR GOGGLES con fit, correct waters, complete comfort Ween by leading system.

se un Etakagramet comme no Prin Arress. CATE PLYING CHECKS and AVIATION COMPANY EXPENSIONAL AND COMMENCIAL ANIATION Nat and Polyroph Address Penton and Street Mater Report Dept. The Wateral Building | Mail of Mail Bir | Self Br | Self Br

Dunial Convenheira School of Acronautics Course in Accompanies Personner and Industrial Aviation For particulars strely to the Dean of the College of Engineering M. V. Hatamate. Datamate Malekto, New York, N. T.

THE AMERICAN EAGLE C. S. HANSON ALTERESCO SE CONTACTO MARTERIATEZA DECE

Record breaking planes are built with HASKELITE Plywood TICALLY AT the Assertant Street making from-Proof Sights have been belt with HaldChill Son

WASKELLING MANUFACTURING CORPORATION COCCLES General RESISTAL, mondasterable, estically rule. STRAIRES & RESECUTIONS -- Breakles, H. T.

> PACHOMETERS BLANCHARD INSTRUMENT OF

Everything for the Pilot and His Plane Lat us serve you.
Your Sellphother is nor Surem PLANES FARRIC DOPE STC. SOUTHERN AIRWAYS INC. INC. Sea Astronio, Tan. TOR Culture St.

WANTED AT ONCE A transport roles, in talks about of an eventure school, to took

THE AIRCRAFT SERVICE DIRECTORY Brines You Into Weekly Contact With THE ENTIRE AERONAUTICAL INDUSTRY

AIRPORT ENGINEERS

PARAGON PROPELLERS To any MOROED Involved Distr Providen here submonder PERSON ENGINEERS INC. Baltimon Mandaed

WIND CONES Acrotech, Inc., Streator, III.

CHARLES PROBINSIE, INC.

The Most Comfortable Safety Belt \$ 5 00 AIR THANSPORT EQUIPMENT, INC.

MEATERT YOUR IDEAS. FREE CONTINUES, whole DO 17 NOW! HOME STUDY COURSE FREE

IN WEST OF THE PRACTICAL SCIENCE OF AVIATION International College of Aviation 250 College St. Dan Antonio, Toron

ERLIDER REISNER AIRCRAFT CO. Inc. Seer Propert When Case in 1 wines No. 14 Hegerstours, Md. U.S.A. B. RUSSELL SHAW & CO. FF LOUIS, MO

LIBERTY LIBERTY Ter Atrainer & Brain. THE VIMALERY COMPANY IN Server Cop. N J., E. S. A.

AIRCRAFT SUPPLIES Derest addition to our sind of wide makey and large volume of dearland and wide advants measured and nature parts are enable to in give you prompt and affaired market. Send for 1907 Catababa Str S . Special processors on Catababa 220 N. St. Peel Terrors.

MURISON & CUMMINGS fundament . APRICADE - ANNUAL PRAYLOSS - ATTACHER RESIDENCE

TERRIFORM PHILADELPHIA FLYING SERVICE FAIRCHILD Agents WACO

PHEASANT The ship that was a married down the nory from finder. Make Price (sobject to cheese) \$2,375.00 PREMIANT ASSCRAFT CO., INC., HIMPHIS, NO.

Advertise in this Section

Watch the Results!

- 12. Test

to make a word, mintages charge \$2.50, excells to minutes 15 seeks a word \$7 kee number in new

DANGERT AMPLIAN ASPECT DUCKS IN THE WARE A MARKET TOO OF PURE OR TOOK ADVICENCES. CHAWPTHD AIRPLANE COMPANY

erger in steek der immeriter abienere erger best af grabene

part, accommany or marginar year could possible seed. White all sees for free rite page creating. We have a larger stock than all sedar shadow combined.

Air Spec. 10235D

SEAMLESS STEEL TUBING

TRAVEL AIR-STINSON

GEO, A. WIES, Inc.

PROPRIATE BEAGLET ASSPLANS CO., IN

VENUCE, CALIFORNIA

2431 Positio de OPTROPE MOCE

111 Marray Hdg . Erraner, H

NA WASSISSIPPOP OF NO

SERVICE STEEL OO

1977 Selpant Ass.



MATZELL PROFELLERS ARE RELIMEN BUILT ON HONOR - THEY ARE CLUDE HARTZFILL WALNUT PROPELLER CO.



head for Free Statement and store to a print Common in Artistico. We have right now as compressive for a few of our standards to many thair facilities. If intermedial without a com-

sectants Main Street. Perfo. Littoria CONES

Form approved quickly regulation and, little room require such August to desplay one or maps at all times, your \$5.00 Pioneer Aircraft Co., Elmhurst, Ill.

COLOMBIAN AIRWAY SYSTEM James 49 alers from Security to Control and Western Columbia American Truding Co., Inc., 25 Bennel St., New York City

SCULLY AIR MAIL HELMET AEROTECH Inc. Agreementscal Engineering Design. Seren Anabem Recorns Approach Michelius Bragier Airplans Co., Marchail Re-



The Weekly Issue of AVIATION That You Miss became you are not a results subscriber, may comein the action with positi
If you are a service or a drillion flox, AVIATION a se
anticonceptite object to your college because at each modify use
a publisher more survey and commercial flying were flox, carees

in any models; and more aspected, if a NEWS used a superior is AVIATION

AVIATION The Only Assessment Alloyals World's

causes eviatory. Granicta valve explos threaded rate of and OXX sylvaders. Econyable value seate surfailed To sale. New Jenny also used mouth Connek; figurings and analytics. Both have controls, scale and nockpil over per manager. Acce nave conserve, sense and nockpit covtotal Acro Service, 43 Dolta Plane, N.E., Allania, On. Parachetes for sale: A few new authlities shades at half your for a short laws only. Heaving Parachete Co., 2007 Syst Avenue North, Minnespalu, Minn To min. 160 km. Postale Historica 6005.00 in granificat reites, costy overhealed. One BMW moter good codi-None see. All reasonable. One Attended Englanc complete tions saw. All reasonable. One Annalda lightes complete wit new motor; perfect condition. For instruments. Aploudate delivery. Surjude for mad, sorrows, transacri-

For sole. One DO-1 man first and ving the fonts with For sole. One cours many goes and want up access one. Lawrence from phase Standard for exact sale #200.00 Falb. on the puris. We buy for cash, House Motor Co., Wan-Nated Two or those place ship with OX-5 motor. Will Nº coth for good slap. Please give full particulars and New of what you have for sale. George Helmonus, 160 Col-

Nated Body for small our passenger moneylane. hole E to 40 bp. What have you? Jake Van de Hof, 270 No 5, Wishile, Kane. Nated Several State motor and vaccing sharts, onliable bil selected. Write description and one first letter. Personal Order Court Assessed, Ros. Room "R", Research Bod. New Origano, Lo. Noted at once 5 need Were OX-5 record ships. State Stated at cook 5 tree; when UA-5 reasons supp., whitee and upon beweet each price in first letter. McRocks "Maked Attents makes 30 to 25 homopower may be to co homopower Also Lawyease molecul 26 Laranpowers, complete with your State prior and confident in first latter. Indeed

Nation Per passenger place in good shape, regree and

Liverya, Perrette, Links,

Wasted Politico D VII, SES and spad places, prefer obly without motors. State price and continue. If branks are needed, what in necessary to not show in firms condition to Wanted: Used OX-6 partors or parts. Also one mod OXXI crankense. Shee 785, Average Want to buy used skip, Swedley, Ware or other makes of good skips. Want to sell TM Storet with new 50 Leithone meter; sky gred as new \$250 to cash. See Settle, c/s W S. Anto Ca. Weblia Path, Trans.

HELP WANTED Wanted Priot with new production slap Will gave integers in find growing butteres. Only builder reed apply. den't write. Atlanta Asso Service, 41 Delta Plana V.E. At.

Wasted Party to solict at reconstruction seeing and seein ing patents for Brend type organ. Previous lot 1400 sub-enderance flight. Weight 18 owners per large-power. Out-less contract desired. D. Crosse, Bas S. Lenning, Kum. Sales Engineer Wanted: A long established manufacture of already entents has no opportunity for a sales correspond other has had technical as well as practical experience in fine towarded detailed fight as to education, employment and entere complete detailer turn as to extendate, employment and surry the last three years, solar experience, if say, salary an period and pholograph of applicant. This connection will be preparated with opportunity for advancement. All our reproduces will be held annihilation! Box 771 MISCRILANGOUS CLASSIFIED ADVERTISING

Gary, Led. Seeks all face forward. 150 Hose, Hamilton prop, force 1,000 New covers throughout A sound make: Will trade for OX-5 Shandard to Al condition with some cash. Calemet Air Transport Co., Inc., 1995 Scroolway, Cory, Bureau is brand new 200 Histo converted for marrier and Harpen is bright new EN Hills desireded nor marrow no. Pully enclosed test job, winderful performance. Block took of Will take Carllin or Risso motors at trade. Howev Mo-

Will trade: A Package Str. 5, seven passenger tracing tr Al condries, printed in cost Packard blue for a Waco I

White improper comp man, in your, save, my second whitehes, manyleted coulon course of greent and fring in-structure, very lost of subsession. Willing to work hard in sery breach of nippless industry with fainer. Make me a Transport what deeper postion with reliable company Besselling standy with superclandy for advancement.

hours, sugh, out fly all types. Good seterences. Box 755, Astro engineer seeks connection with an established or startmy economic an designer. Encodient record of experience medical and formal designs and construction. But 767, Autamore.

DURO-GLAS

Investigate the Quality.

Spread and Influence of **AVIATION** Circulation

THE facts will convence you that Avanton covers more intensively than any other publication, the market

has more readers than any other singuist eable-

are based. Avantors, 250 West 57th Street,

The Oldest and Only Trade Weekly Africaft Publication

Forced to double output by a half page ad ONE housted and farty miles, fifty two

france Street, Lee Austles, Coliffornia, was

program is best stone. Mr. Miller sope



Airplane Performance Traditional With WACO

WACO performance and dependahility are traditional - wherever you're heard airplenes mentioned - whatever you've heard about dependshifty of the WACO. There is nothing untried, un-

tal short the WACO. It embodies the engineering principles gamed in the ten years of airplane con-Take the stick of this astroport-

the almost aware like take off and quick climbing ability. Give her the gun and feel the thyill of its speed. Set her stabilizer and fly with hands off. Bring her down and land on the enshion like hydraulie shock absorbers without the slightest just or ing When you have done this you will resize why every one that has seen the WACO is acclaimone it as the out-

Write now for complete details. Approved Type Carafrees No. 13



PERFORMANCE

P ERFORMANCE is the first and most important quality in any military airplane. Though other requirements must be satisfied — a fine military airplane must, first of all, meet every demand for speed, climb and maneuverability.

The newest VOUGHT, the "CORSAIR", like all VOUGHT models, asks no odds from any airplane built.

Its speed range is phenominal, its climb is unexcelled, and at operating altitudes it will out-fly the best service type single-place Fighters and the two-place Landplanes and Scaplanes.

And an airplane which meets military requirements will meet the needs of the most exacting private or commercial owner.

"CORSAIR" PERFORMANCE IS SUPREME

